DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **A-13497**

This is to certify that the
Peripheral Equipment

with type designation(s)
Panel T4A, T7A, T7AM, T7A High Temp, T10A,
Option CIX-CAN Module

Manufactured by
Beijer Electronics AB
MALMÖ, **Sweden**

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application
Location classes:

Temperature	**B***
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to DNV Rules shall be provided upon installation on board**

***Tested to -15°C**

This Certificate is valid until **2017-12-31**.

Issued at **Høvik** on **2013-11-04**

DNV local station: **Essen CMC Southern Germany**

Approval Engineer: **Nils Jarem**

for **Det Norske Veritas AS**

Digitally Signed By: Sneen, Ståle
Location: DNV Høvik, Norway
Signing Date: 2013-11-04, on behalf of

Odd Magne Nesvåg
Head of Section

Product description

Base Type: T4A	4" Display CPU board rev 3A
Base Type: T7A	7" Display CPU board rev 3A
Base Type: T7AM	7" Display CPU board rev 3A High brightness Display
Base Type: T7A High Temp.	7" Display CPU board rev 3A High brightness Display + Glass on Glass Touch
Base Type: T10A	10" Display CPU board rev 3A

Option CIX-CAN Module

Compass safe distance (standard compass):

Base Type: T4A	30 cm
Base Type: T7A	25 cm
Base Type: T7AM	30 cm
Base Type: T7A High Temp.	30 cm
Base Type: T10A	20 cm

Nominal voltage: 24V DC.

Manufacturer:
Beijer Electronics Products AB
Skruvgatan 8
21124 Malmö
Sweden

Place of Manufacture:
Beijer Electronics Products AB
1F., No.501-15, Zhongzheng Rd.,
Xinian Dist.,
231 New Taipei City, Taiwan

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

	Document No.	Rev./ date	Title / description
Manuals	MAEN015E	2012-11	iXT4A Installation Guide
	MAEN016E	2012-11	iXT7A Installation Guide
	MAEN118B	2013-08	iXT7AM Installation Guide
	MAEN119B	2013-08	iXT7A HighTempInstallation Guide
	MAEN117E	2012-11	iXT10A Installation Guide
	MAEN120B	2013-08	iXT7AM-CAN Installation Guide
Test reports	02 – 03 / 2013	2013-03-11	Test Report (ENV)
	06912.022.13 V1.0	1.0	Test Report (EMC)
	06912.024.13 V1.1	1.1	Test Report (EMC)
	06912.025.13 V1.0	1.0	Test Report (EMC), iXPanel T7A rev. 3A
	06912.043.13 V1.1	1.1	Test Report (EMC), T7A, AL HT

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.
The 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4th edition (2002).

Marking of product

Panel:
Beijer Electronics
Base Type: TxA
Serial no. / Part no.
Nominal Voltage: 24V DC, Rated current: 1.0 A.

Option:
Beijer Electronics
CiX CAN Module
Serial no.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE